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FILED 12/28/02

PTO/SB/08A (10-96)

Approved for use through 10/31/99, OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete If Known

Application Number	09/649,569
Filing Date	AUGUST 28, 2000
First Named Inventor	PATEL et al.
Group Art Unit	1746
Examiner Name	Unknown
Attorney Docket Number	P06-US

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	DA	WO	98/05605		Bhardwaj, J. K.	02-12-1998		
	DB	wo	98/13856		Bhardwaj et al.	04-02-1998		
	DC	wo	99/01887		Lea et al.	01-14-1999		
	DD	wo	99/03313		Lea et al.	01-21-1999		
	DE	wo	99/49506		McQuarrie, A. D.	09-30-1999		
	DF	wo	00/52740		Bhardwaj et al.	08-08-2000		
	DG	EP	0 822 582 A2		Bhardwaj, J. K.	02-04-1998		
	DH	EP	0 822 584 A2		Bhardwaj, J. K.	04-04-1998		
	DI	EP	0 838 839 A2		Bhardwaj, J. K.	04-29-1998		
	DJ	EP	0 878 824 A2		McQuarrie et al.	11-18-1998		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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Filing Date	AUGUST 28, 2000
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Group Art Unit	1746
Examiner Name	Unknown
Attorney Docket Number	P06-US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
	EA	STRELLER et al., "Selectivity in Dry Etching of Si(100) and XeF ₂ and VUV Light", Elsevier Science B.V., Applied Surface Science, (1996), 106: pp. 341-346	
	EB	VUGTS et al., "Si/XeF ₂ Etching: Temperature Dependence", J. Vac. Sci. Technol. A 14(5), (Sep/Oct 1996), pp. 2766-2774	
	EC	WANG et al., "Gas-Phase Silicon Etching with Bromine Trifluoride", Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators, Chicago (June 16-19), pp. 1505-1508	
	ED	WINTERS, H.F., "Etch Products from the Reaction of XeF ₂ with SiO ₂ , SiO ₃ , Si ₃ N ₄ , SiC, and Si in the Presence of Ion Bombardment", J. Vac. Science Technology B 1(4), (Oct-Dec 1983), pp. 927-931	
	EE	WINTERS et al., "The Etching of Silicon with XeF ₂ Vapor", Appl. Phys. Lett. 34(1), January 1, 1979, pp. 70-73.	
	EF	GILDEMEISTER, J.M., "Xenon Difluoride Etching System", (Nov 17, 1997)	
	EG	"Xenon Difluoride Isotropic Etch System", Seeing is Believing, Surface Technology Systems Ltd. brochure, Newport, UK (date unknown)	
	EH	Assorted promotional literature, Surface Technology Systems Ltd., Newport, UK (July 28, 1999)	

Examiner Signatur		Date Considered	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Shee

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Complete If Known

Application Number	09/649,569
Filing Date	AUGUST 28, 2000
First Named Inventor	PATEL et al.
Group Art Unit	1746
Examiner Name	Unknown
Attorney Docket Number	P06-US

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Substitute for form 1449B/PTO		NOV 28 2003		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(use as many sheets as necessary)</small>				Application Number	09/649,569
Sheet	2	of	2	Filing Date	AUGUST 28, 2000
				First Named Inventor	PATEL et al.
				Group Art Unit	1746
				Examiner Name	Unknown
				Attorney Docket Number	P06-US

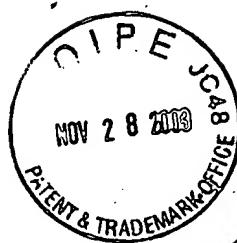
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	BA	ALIEV et al., "Development of Si(100) Surface Roughness at the Initial Stage of Etching in F2 and XeF2 Gases Ellipsometric Study", Surface Science 442 (1999), pp. 206-214.
	BB	HABUKA et al., "Dominant Overall Chemical Reaction in a Chlorine Trifluoride-Silicon-Nitrogen System at Atmospheric Pressure", Japan Journal of Applied Physics Vol 38 (1999), pp. 6466-6469.
	BC	HECHT et al., "A Novel X-ray Photoelectron Spectroscopy Study of the Al/SiO ₂ Interface", J. Appl. Phys. 57 (1: 15 June 1985, pp. 5256-5261.
	BD	HOULE, F.A., "Dynamics of SiF ₄ Desorption During Etching of Silicon by XeF ₂ ", IBM Almaden Research Center, 15 April 1987, pp. 1866-1872.
	BE	FLAMM et al., "XeF ₂ and F-Atom Reactions with Si: Their Significance for Plasma Etching", Solid State Technol. 26, 117 (1983).
	BF	IBBOTSON et al., "Plasmaless Dry Etching of Silicon with Fluorine-containing Compounds", Journal of Applied Physics, vol. 56, no. 10, Nov. 1984, pp. 2939-2942.
	BG	IBBOTSON et al., "Comparison of XeF ₂ and F-atom Reactions with Si and SiO ₂ ", Applied Physics Letter, vol. 44, 1129 (1984).
	BH	WINTERS et al., "The Etching of Silicon with XeF ₂ Vapor", Applied Physics Letters, vol. 34, no. 1, 1979 pp. 70-73.
	BI	XACTIX, Inc., Marketing Brochure, June 27, 1999
	BJ	WANG et al., "Gas-Phase Silicon Etching with Bromine Trifluoride", TRANSDUCERS '97, International Conference on Solid-State Sensor and Actuators, Chicago, June 16-19, 1997, pp. 1505-1508.

Examiner Signature	Date Considered
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

C mplete if Known

Application Number	09/649,569
Filing Date	AUGUST 28, 2000
First Named Inventor	PATEL et al.
Art Unit	1748
Examiner Name	PURNELL, A.
Attorney Docket Number	P06-US

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. 1	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
FA	US- 3,511,727		05-12-1970	Hays, R.G.	
FB	US- 4,695,700		09-22-1987	Provence et al.	
FC	US- 4,749,440		08-07-1988	Blackwood et al.	
FD	US- 5,208,471		04-27-1993	Smith, D.K.	
FE	US- 5,439,553		08-08-1995	Grant et al.	
FF	US- 5,534,107		07-09-1996	Gray et al.	
FG	US- 5,718,495		02-10-1998	Butterbaugh et al.	
FH	US- 5,726,480		03-10-1998	Plaster, K.S.	
FI	US- 5,757,458		05-26-1998	Yamazaki et al.	
FJ	US- 5,858,065		01-12-1999	Li et al.	
FK	US- 6,022,458		02-08-2000	Manning, T.J.	
FL	US- 6,162,387		12-19-2000	Tai et al.	
FM	US- 6,277,173 B1		08-21-2001	Sadakata et al.	
FN	US- 6,290,884 B1		09-18-2001	Patel et al.	
FO	US- 6,328,801 B1		12-11-2001	Gary et al.	
FP	US- 6,334,928 B1		01-01-2002	Sekine et al.	
FQ	US- 6,355,181 B1		03-12-2002	McQuarrie, A.D.	
FR	US- 2001/0002683 A1		06-07-2001	Tai et al.	
FS	US- 2002/0033229 A1		03-21-2002	Leboultz et al.	
	US-				

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. 1	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
GA	EP-0704884-A2		04-03-1996	Mehta, J.		
GB	EP-0878824-A2		11-18-1998	McQuarrie et al.		
GC	EP-0878824-A3		01-19-2000	McQuarrie et al.		
GD	EP-0955688-A2		11-10-1999	Yao et al.		
GE	JP-1982/57098879-A		06-18-1982	Tsunetoshi, A.		
GF	JP-1983/58130529-A		08-04-1983	Yoshihiro et al.		
GG	JP-1985/60057938-A		04-03-1985	Katsumi et al.		
GH	JP-1988/61053732-A		03-17-1988	Arata et al.		
GI	JP-1988/61134019-A		06-21-1986	Shinji et al.		
GJ	JP-1988/61181131-A		08-13-1988	Shinji et al.		

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PTO/SB/08A (10-01)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 3

<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(use as many sheets as necessary)</i></p>				<p>Complete if Known</p>	
Sheet	2	of	3	Application Number	09/649,569
				Filing Date	AUGUST 28, 2000
				First Named Inventor	PATEL et al.
				Art Unit	1746
				Examiner Name	PURNELL, A.
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (# known)				
	GK	JP-1986/61187238-A	08-20-1986	Nobuo et al.		
	GL	JP-1986/61270830-A	12-01-1986	Toru, T.		
	GM	JP-1987/62071217-A	04-01-1987	Toru et al.		
	GN	JP-1988/63155713-A	06-28-1988	Tadashi, F.		
	GO	JP-1989/01208834-A	08-22-1989	Nobuo et al.		
	GP	JP-1989/01217921-A	08-31-1989	Tsuneo et al.		
	GQ	JP-1990/02250323-A	10-08-1990	Susumu et al.		
	GR	JP-1991/03012921-A	01-21-1991	Nobuo et al.		
	GS	JP-1992/04096222-A	03-27-1992	Atsuyuki, A.		
	GT	JP-1995/07029823-A	01-31-1995	Hiroshi, T.		

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Sheet 3 of 3

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				Filing Date	AUGUST 28, 2000
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